

MILSTAR SATELLITE COMMUNICATIONS SYSTEM

GENERAL: The Milstar Satellite Communications System Program is a Joint program to develop and acquire Milstar Extremely High Frequency (EHF) satellites, mission control hardware, and terminals to support operational users. The satellites will be in high and low inclination orbits for worldwide coverage. A small Ultra high Frequency (UHF) package on the Milstar spacecraft will provide compatibility with existing Air Force Satellite Communications (AFSATCOM) and Navy Fleet Broadcast UHF systems and facilitate the transition to EHF. The Air Force has overall system development responsibility, through the Joint Milstar Program Office (JMPO) which develops and acquires the space and mission control segments. Each Service manages a terminal program under the overall direction of the Joint Terminal Program Office managed by the Navy. The Air Force terminal portion of the program develops, tests and acquires Milstar compatible Extremely High Frequency (EHF) and EHF/UHF (Ultra High Frequency) terminals for airborne and selected ground operational requirements, including the National Command Authorities, Commanders-in-Chief, strategic forces, and tactical users.

MISSION: The Milstar satellite communications system will support National Command Authorities with worldwide, secure, jam-resistant and survivable two-way voice and data communications. It will allow command and control and reception of battlefield information through all levels of conflict.

PROGRAM

STATUS: The program is in full scale development. The Air Force awarded a contract to Lockheed Missile and Space Company in June 1983 for satellite and mission control development. System Preliminary Design Review for the satellite and mission control segments was completed in Dec 85. Raytheon Corp. was selected in May 85 to complete the second phase of the Air Force terminal development program. Low rate initial EHF terminal production is scheduled for FY 89. Production of Milstar UHF transition modifications are continuing.

FUNDING (\$ in Millions):

	Prior	FY 87	FY 88	FY 89	To Comp	Total
Missile Procurement 101.6 (AFSATCOM on Hosts)	----	----	----	----	----	Cont
Other Procurement 20.6 (Milstar UHF Transition)	----	----	----	----	Cont	Cont
RDT&E 450.9 (AF Terminals)	272.0	229.2	310.4	Cont	Cont	
RDT&E 922.3 (Satellite and Mission Control)	470.3	Class.	Class.	Cont	Cont	

CONTRACTORS: Lockheed Missiles and Space Corporation - satellite and mission control prime contractor
TRW Corporation - satellite communications payload subcontractor
Hughes Aircraft Company - satellite crosslinks subcontractors
Raytheon Corp/Rockwell International - EHF Terminal Development
Rockwell International/M/A COM - UHF Transition Mods

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